

Atty Dkt No. 8500-0247410
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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Christopher D. TAGGE et al.

-Serial-No.: Divisional-of-09/414,132-

-Group-Art-Unit: -Unassigned

Filing Date: Concurrently herewith

Examiner: Unassigned

Title: COMPLEXES OF MID-TRANSITION METALS AND UNSATURATED

NITROGENOUS LIGANDS AS SINGLE-SITE CATALYSTS

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Box Patent Application Washington, DC 20231

Sir:

This is an Information Disclosure Statement submitted for the Examiner's consideration. Applicants respectfully request that the Examiner review and make of record the references identified below.

The references identified below were disclosed and/or cited in parent application Serial No. 09/414,132, filed October 6, 1999, and, as such, copies thereof are not included pursuant to the provisions of 37 CFR § 1.98(d).

PTO-1449 forms listing the references accompanies this paper. Applicants would appreciate the Examiner's initialing and returning the form to indicate that the references have been reviewed and made of record. The references are as follows:



U.S. PATENT DOCUMENTS			
PATENT NO.	ISSUE DATE	PATENTEE	
3,691,095	9/12/72	Kroll et al.	
5,459,117	10/17/95	Ewen	
5,557,023	9/17/96	Somogyvari et al.	
5,866,663	2/2/99	Brookhart et al.	
6,162,884	12/19/00	Alt et al.	
6,214,761	4/10/01	Bennett	

FOREIGN PATENT_DOCUMENTS			
DOCUMENT NO.	PUBLICATION DATE	COUNTRY	
EP0416815	3/13/91	Europe	
EP0874005	10/28/98	Europe	
EP1008595	6/14/00	Europe	
WO 97/45434	12/4/97	PCT	
WO 98/03521	1/29/98	PCT	
WO 98/12981	3/18/99	PCT	
WO 98/27124	6/25/98	PCT	
WO 98/30612	7/16/98	PCT	
WO 98/49208	11/5/98	PCT	

## OTHER DOCUMENTS

Farahbakhsh et al. (1997), "Thio-Ligation to Vanadium: The NSSN and S' N' O Donor Sets (N = Pyridine, N' = Enamine; S = Thioether, S' = Thiolate)," Chem. Ber./Recl. 130(8):1129-1133.

Feldman et al. (1997), "Electrophilic Metal Precursors and a  $\beta$ -Diimine Ligand for Nickel(II)- and Palladium(II)-Catalyzed Ethylene Polymerization," *Organometallics* 16(8): 1514-1516.

Gibson et al. (1998), "Chromium(III) Complexes Bearing N,N-Chelate Ligands as Ethene Polymerization Catalysts," Chem. Commun. 16:1651-1652.

Hancock et al. (1976), "Bis(2,2'-Bipyridine) and Bis(1,10-phenanthroline) Complexes of Chromium(III) and Cobalt(III)," *Acta Chemica Scandinavica A* 30(2):79-97.

Horton (1994), "Metallocene Catalysts: Polymers by Design?," Trends Polym. Sci. 2(5):158-166.

Johnson et al. (1995), "New Pd(II)-Based Catalysts for Polymerization of Ethylene and  $\alpha$ -Olefins," *J. Am. Chem. Soc.* 117(23):6414-6415.

## OTHER DOCUMENTS

Johnson et al. (1996), "Copolymerization of Ethylene and Propylene with Functionalized Vinyl Monomers by Palladium(II) Catalysts," J. Am. Chem. Soc. <u>118</u>(1):267-268.

Kim et al. (1998), " $[(Ph)_2 nacnac]MCl_2(THF)_2$  (M = Ti, V, Cr): A New Class of Homogeneous Olefin Polymerization Catalysts Featuring  $\beta$ -Diiminate Ligands," *Organometallics* 17(21):4541-4543.

Pal et al. (1994), "Dichlorochloro, Dichloro and Trichloro Complexes of Chromium(III) Containing Bidentate, Tridentate and Some Quadridentate Schiff Base Ligands," *J. Bangladesh Chem. Soc.* 7(2):126-137 (abstract only).

Vergopoulos et al. (1994), "Oxo and Non-Oxovanadium(IV) Complexes with Oxy-Carboxylate Ligands, and the Structure of VC12(Salen)," Z. Naturforsch., B: Chem. Sci. 49(8):1127-1136 (abstract only).

Weidenbruch et al. (1993), "L Reaktionen von Silylenen und Disilenen mit 2,2'-Bipyridyl, Pyridin-2-aldiminen und α-Ketoiminen: Cycloadditionen versus C-H-Insertion," *Journal of Organometallic Chemistry* 454:35-43.

Westland et al. (1973), "Reactions of Halocarbonyls of Group VIb Elements. II. Complexes of Molybdenum and Tungsten Containing Group Va Donors or Phenyl Isocyanide," *Inorganic Chemistry* 12(10):2356-2361.

Zuech (1972), "Polymerizations with Homogeneous Chromium Catalysts," *Journal of Polymer Science: Polymer Chemistry Edition* 10:3665-3672.

This Information Disclosure Statement is not intended as a representation that additional information material to the examination of this application does not exist or that any of the above references constitutes prior art to the present application within the meaning of 35 USC § 102.

As applicants are filing this Disclosure Statement at the time of filing the application, no fee is required.

Respectfully submitted,

12/17/01

Date

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